

1506927

<https://www.phoenixcontact.com/us/products/1506927>

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Connector, Universal, 3-position, shielded, Socket straight M8, coding: A, Solder connection, knurl material: Brass, nickel-plated, external cable diameter 3.5 mm ... 5 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1506927
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF35
Product key	BF2BJA
Catalog page	Page 18 (C-2-2019)
GTIN	4017918881177
Weight per piece (including packing)	18 g
Weight per piece (excluding packing)	18 g
Customs tariff number	85366990
Country of origin	DE

# SACC-M 8FS-3CON-M-SH - Connector



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## Technical data

### Notes

General	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
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### Mounting

Connection method	Solder connection
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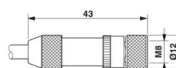
### Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	3
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	43 mm

### External dimensions

Outside diameter	3.5 mm ... 5 mm
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### Housing

Diameter housing	12 mm
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### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	Brass, nickel-plated
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

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Material for screw connection	Brass, nickel-plated
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## Connection data

### Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm² ... 0.25 mm² (flexible) 0.08 mm² ... 0.25 mm² (solid)
Connection cross section AWG	28 ... 24 (flexible) 28 ... 24 (solid)
Stripping length of the individual wire	3 mm
Tightening torque	0.2 Nm (M8 knurl)

## Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC 60 V DC
Nominal current I <sub>N</sub>	4 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M8
Coding	A

## Cable/line

Signal type/category	Universal
Stripping length of the individual wire	3 mm

## Environmental and real-life conditions

### Ambient conditions

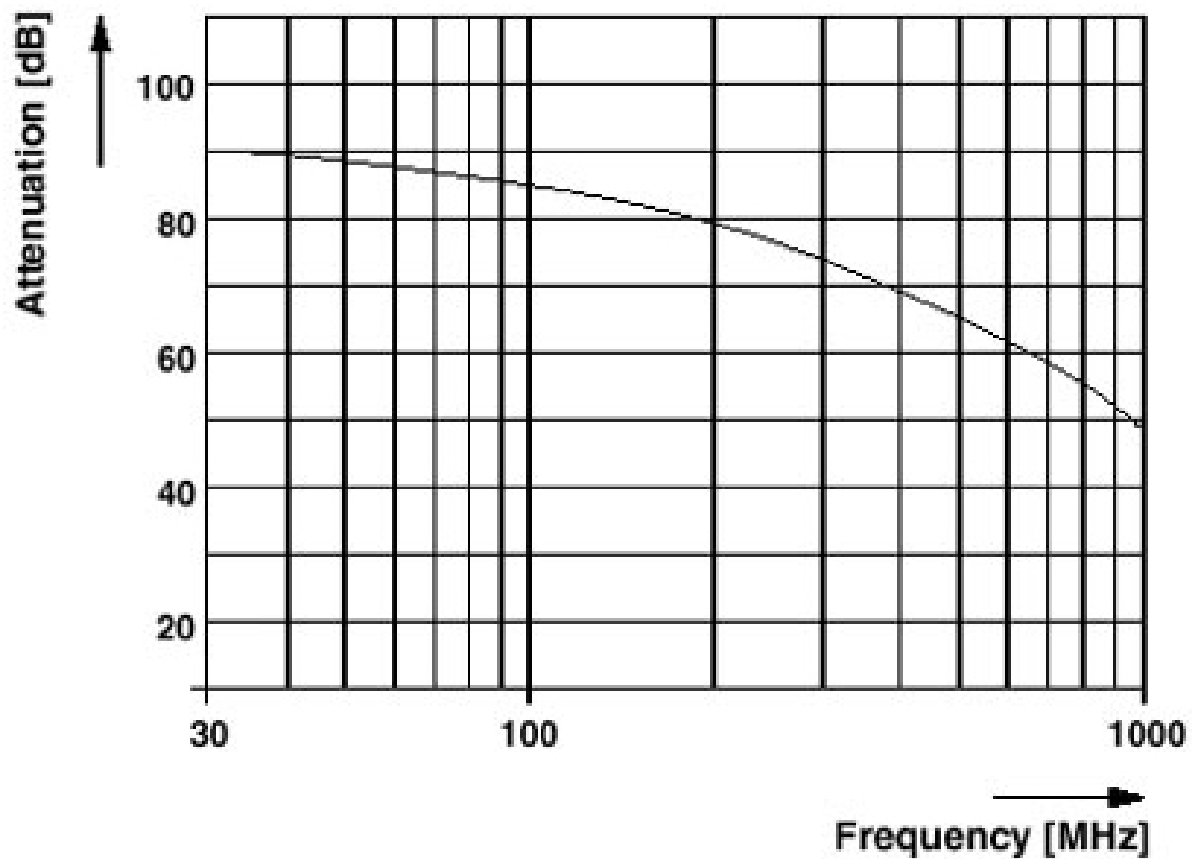
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

## Drawings

### Diagram



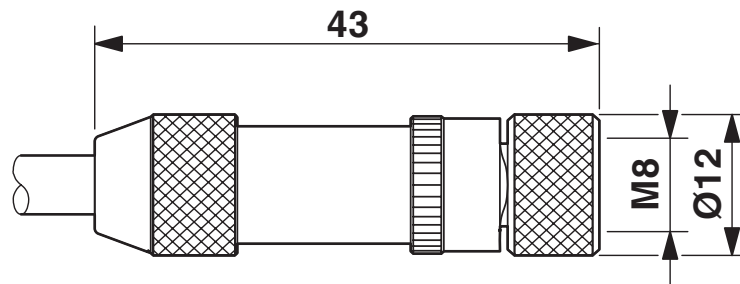
**Attenuation curve of the SACC... male/female connectors**

# SACC-M 8FS-3CON-M-SH - Connector

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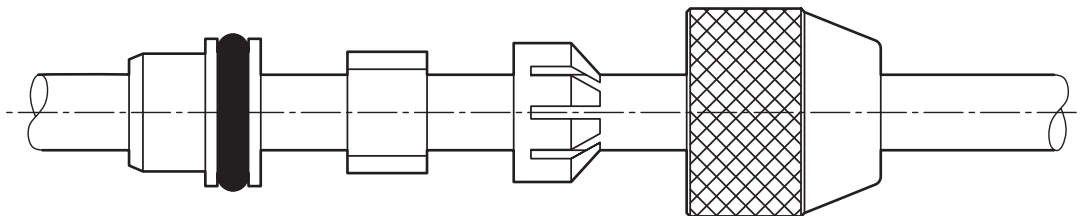
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Dimensional drawing



Socket M8 x 1, straight, shielded

Functional drawing



Assembly steps for M8 male/female plug and conductor

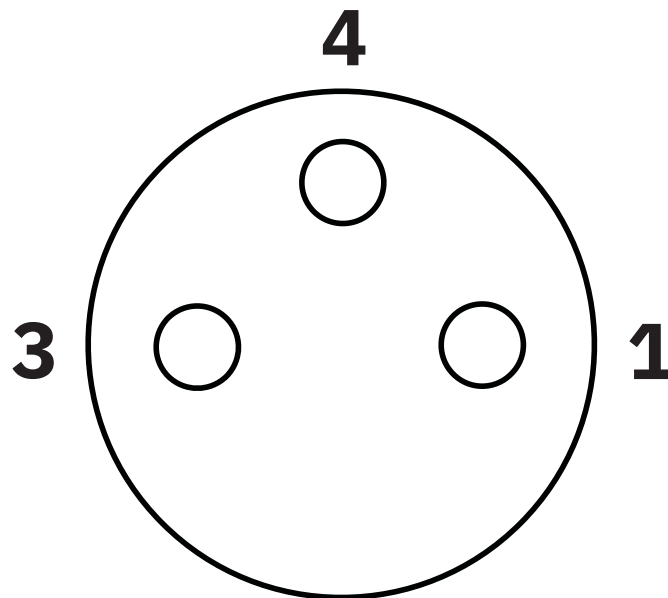
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Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1506927>

	<b>UL Listed</b> Approval ID: FILE E 221474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	4 A	-	-

	<b>cUL Listed</b> Approval ID: FILE E 221474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	4 A	-	-

<b>cULus Listed</b>
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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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